E-LynX™ HH

Tactical multi-band, multi-waveform handheld SDR for dismounted forces

- **Secure and powerful SDR platform**
- **Complete NATO frequency coverage:** VHF-UHF
- **Extended networking coverage**
- **Advanced techniques:** Unique multi-hop concurrent flooding
- **Robust communication:** Unprecedented immunity, information security and GNSS-independent self-synchronization
- **Integrated services:** Simultaneous high-quality voice sessions, IP data, BFT, and video in a single network
- **Seamless connectivity:** Interfaces for voice and data, ensuring smooth integration with customer devices
- **Innovative user interface:** Modern, information-rich design

Elbit Systems™
C4I and Cyber

E-LynX™ HH

Multi-role, Multi-waveform

A Combat-proven solution providing a dynamic, secure network adaptable to almost any terrain or mission.

Superior Performance

Seamless communication and situational awareness with superior RF performance and minimal SWaP.

Member of E-LynX™ SDR Family

Delivers advanced multidomain networking solutions, meeting the complex communication and connectivity needs of modern battlefields across all echelons and operational scenarios.

Technical Specifications*

General	
Frequency range	30-512MHz
Software environment	SCA 2.2.2
Radio presets	100 configurable presets
GNSS	Internal receiver for location report and 1PPS, supporting multiple constellations
Interfaces	Ethernet, USB, RS-232, analog audio, external communication bearers (Cellular, Satcom, etc.)
Operation	• HMI with icon-based operation via 2.8" graphic color display and keypad • Fast access to both radio configuration and network status, including visual network-topology • Supported also via network management and remote operation
Extensive software tools	Configuration, planning and management, network control, security (including keys generation and loading), network simulation
Mounted Options	5W/50W vehicular adapters
Immune & Secure Communication	
ECCM	Robust frequency hopping combined with FEC and interleaver for improved jamming resistance
Security	• COMSEC and TRANSEC utilizing AES-128/256 • Red/Black design • Anti-tamper and emergency erase • Secured management via SNMPv3
Power	
Power input	14.4VDC nominal, supporting 10.5-16.8V
Power sources	Multiple rechargeable Li-ion battery options
Physical	
Dimensions (HxWxD)	169x95x58mm (without battery)
Weight	925g (without battery)

Waveforms	
Networking	Multi-hop Mobile Ad-Hoc IP Network (MANET) featuring robust routing technologies: concurrent flooding and store & forward, multi-hop (up to 4 narrowband & 8 wideband), self-forming, self-healing
Services	Simultaneous voice (analog and external VoIP), IP data, IP video and BFT/PLI Multiple voice groups in a single net
Network synchronization	Autonomous, no master station, no single point of failure, no reliance on GNSS receiver or any external signal
Elbit Systems waveform	• Narrowband MANET • Wideband high capacity MANET • Wideband airborne MANET • Soldier radio MANET • Combat net radio
Standard waveforms	STANAG 4204, STANAG 4205
Sovereign waveform option	Supports sovereign waveform porting
Transmitter and Receiver Performance	
Output power	Low 0.25W, Med 1W, High 5W
Channel bandwidth	25kHz, 50kHz, 1MHz
Frequency stability	+/-0.3ppm
Sensitivity	-116dBm @ 12dB SINAD
Spurious suppression	75dB above MDS
Harmonic suppression	HD2/3 > -50dBc, HD4 > -70dBc
Output protection	Open and short-circuit
Qualifications	
Environmental	MIL-STD-810G
EMC	MIL-STD-461F

* As of November 2024

Elbit Systems C⁴I and Cyber
2 Hamachshev St., Netanya 4250712, Israel
E-mail: C4icyber.info@elbitsystems.com www.elbitsystems.com

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